Rob Snihur
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Concatenation on-the-fly

- Review
- Performance
- New plans

Review Plans (from last time)

- Generate real sample (jqcdci) at San Diego (half completed, other half almost done)
  - Save concatenated output on disk at FNAL (done)
  - Check output files (done: Allison made ntuples & successfully ran some analysis code)
  - If OK, send to DFC (done)
- Generate real sample and send output directly to DFC (doing this for 2nd half of jqcdci sample)
- Run stress tests on other DCAFs & Toronto (ran small test jobs on CNAF successfully, problems at Toronto)
- Replace DFC tape logger with SamStore (waiting)

Performance

- Jqcdci: includes a filter for b/c quarks, 4% efficient
- ~Full sample completed: 126 segments, 4252 run-sections (50 MB run-sections)
- Target output file size: 1.5 GB
- Analyzed log files for 60 segments, 2 crashes
  - <CPU> = 26 hrs, RMS = 8 hrs
  - Out of disk: one unusual node had 12 of 14 GB used. Fixed.
  - Exceeded 72 hr CPU limit: no output tarball, so impossible to diagnose
- Observed output file sizes: 1.35 – 1.71 GB
  - Spread under investigation
- Only one section failed twice

Plans

- **Continue submitting samples to SDSCCAF & CNAF**
- **Make it work on Toronto DCAF**
- **Expand Toronto DCAF to maximum number of nodes available to CDF operations**
  - **Allow privileged DCAF access to MC production group**
  - **Submit MC at Toronto via DCAF, and discontinue submission via local batch system**
  - **Allows consistent submission/development for all DCAFs**
- **Test Glide-in CNAF (still not available for large scale MC production)**
- **Test SAMGrid (meet w/ Gabriele and Anoop next week)**
- **Replace DFC tape logger with SAM store**